

## *Matlab Guide To Finite Elements Book*

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December 2006 Peter I. Kattan Preface to the First Edition 3 This is a book for people who love finite elements and MATLAB . We will use the popular computer package MATLAB as a matrix calculator for doing finite element analysis. Problems will be solved mainly using MATLAB to carry out the tedious and lengthy matrix calculations in addition to some ...

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Finite Element Method (FEM) Basics. To summarize, the FEM approach: Represents the original domain of the problem as a collection of elements. For each element, substitutes the original PDE problem by a set of simple equations that locally approximate the original equations. Applies boundary conditions for boundaries of each element.

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